

Pinnacle
SCIENTIFIC AND MEDICAL EQUIPMENT

INSTRUCTION MANUAL

FOR USE OF

**STANDARD SPARK PROOF LABORATORY
REFRIGERATOR**

PSPR-P-630-1-GD



PLEASE READ CAREFULLY BEFORE OPERATION

Contents

Section 1 – Inventory Checklist

Section 2 – Transport

Section 3 – Installation & Operation

Section 4 – Maintenance & Service

Section 5 – Troubleshooting

Section 6 – Product Warranty

Introduction

Pinnacle Scientific would like to thank you for choosing this piece of equipment from our range. We believe that you have made the right decision in your purchase. We assure you of continued ongoing support in appreciation of your investment with us.

Please read the following contents of this manual to ensure you obtain the most benefit from your investment.

Please note only interior is spark proof.

P Series +5.0°C Operation
STANDARD SPARK PROOF LABORATORY Refrigerator Instruction Manual

Section 1 – Inventory Checklist

With this cabinet the following items are supplied –

- Keys – 1 x pair for door lock
- USB
- Hose

Section 2 - Transport

- When transporting/carrying the refrigerator, please keep in a vertical position. To prevent any damage to the internal components of this unit (i.e. compressor); please do not tilt over 40°.
- Do not place your refrigerator near a direct heat source or direct sunlight.
- Never place the fridge in a location where high moisture levels are present (the P series are rated to 32°C – 60% RH).

Section 3 – Installation and Operation

- 1 Remove all packaging and dispose of thoughtfully. Situate the cabinet near its final position and plug mains lead into power socket.
- 2 Place your shelves at the desired levels.
- 3 Please ensure adequate ventilation space around the exterior of the cabinet, 60mm at the rear 60mm to the side. Failure to do so may affect the performance of your fridge.
- 4 Install cabinet on firm even ground- adjust the feet on the bottom of the fridge to ensure the cabinet is level (to the left increases the height).



PLEASE NOTE: to ensure the most efficient operation of your refrigerator please remember the following:

- In order to operate effectively the cold air produced by the refrigerator must be able to circulate inside the cabinet,
 - do not place solid trays on the shelves that cover more than 60% of the shelf,
 - if product is in boxes, make sure that there is at least 20mm of free space between the boxes
 - spread the product evenly over the shelves
 - Storage on the base of the unit is not recommended
- Ensure that product is at least 40mm away from the fans on the top shelf,
- Do not overload the refrigerator, as a general rule any cabinet should not be loaded to more than 70% of its capacity to ensure adequate air flow.

P Series +5.0°C Operation
STANDARD SPARK PROOF LABORATORY Refrigerator Instruction Manual

Section 3 – Installation and Operation *cont.*

Power Supply

Once plugged in, the display will show the temperature inside the fridge and the compressor will run after a small time delay. This temperature is the actual temperature recorded by the probes inside the fridge and, as the fridge cools to the set point (factory set at 5.0°C), the number on the display will descend accordingly.

Front Panel Display



SET: To display target set point; in programming mode it selects a parameter or confirms an operation.

 **(DEF):** To start a manual defrost. (DISABLED ON THESE MODELS)

 **(UP):** To see the max stored temperature; in programming mode it browses the parameter codes or increases the displayed value.

 **(DOWN):** To see the min stored temperature; in programming mode it browses the parameter codes or decreases the displayed value.

 To switch the instrument. – (DISABLED ON THESE MODELS)

 To switch the light - (DISABLED ON THESE MODELS)

Each LED function is described in the table below:

LED	MODE	FUNCTION
	ON	Compressor enabled
	Flashing	Anti-short cycle delay enabled
	ON	Defrost enabled (DISABLED ON THESE MODELS)
	ON	An alarm is occurring
	ON	(DISABLED ON THESE MODELS)

P Series +5.0°C Operation
STANDARD SPARK PROOF LABORATORY Refrigerator Instruction Manual

Section 3 – Installation and Operation *cont.*

Min/Max Temperature Recording

The refrigerator records the maximum high and minimum low temperatures when connected to mains electricity. This information is stored until the refrigerator is reset.

To access the **Min** temperature press and release the **DOWN** button and release. The “Lo” message will display followed by the minimum temperature recorded. To restore the normal display, press the **DOWN** key again or by waiting 5 seconds.

To access the **Max** temperature press and release the **UP** button and release. The “Hi” message will display followed by the maximum temperature recorded. To restore the normal display, press the **UP** key again or by waiting 5 seconds.

Min/Max Temperature Reset

It is recommended that temperatures in the refrigerator must be monitored and recorded at least once each working day. Once you have taken the temperatures for the day it is important that you reset the controller. This is because the refrigerator will always display the high and low temperature since the last temperature reset. The controller does not automatically reset.

To reset the **Min** temperature press and release the **DOWN** button then press and hold the button **SET** keeping your finger on the button, the display will then change to flash ‘**rSt**’ then revert to normal operation. This means you have successfully reset the minimum temperature display and the previous high and low temperatures have been deleted.

To reset the **Max** temperature press and release the **UP** button then press and hold the button **SET** keeping your finger on the button, the display will then change to flash ‘**rSt**’ then revert to normal operation. This means you have successfully reset the minimum/maximum temperature display and the previous high and low temperatures have been deleted.

P Series +5.0°C Operation
STANDARD SPARK PROOF LABORATORY Refrigerator Instruction Manual

Section 3 – Installation and Operation *cont.*

Alarm Functions

Message	Cause
P1	Control probe failure
P3	Evaporator probe failure
P4	Product probe failure
HA	Maximum temperature alarm
LA	Minimum temperature alarm
dA	Door open

Door Alarm

If the door of the refrigerator is left open for more than three minutes, an audible alarm will sound and the front panel will flash **dA**, the compressor will stop running at the same time.

Close the door; the door alarm will stop automatically.

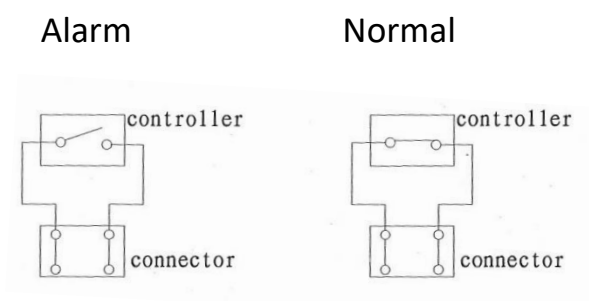
Set Temperature

To adjust the set temperature, press and hold the **SET** button until set temperature appears on the display. Using the up and down arrows, you can adjust the temperature. Press **SET** to save new settings. (Range 4°C-6°C.)

Remote Alarm

All alarms (i.e. high temperature alarm, low temperature alarm, door alarm etc.) will output to the BMS connector located at the rear of the cabinet.

The maximum rating for the connection is 1A 30VDC.



⚠️ ALARM CONNECTION – IF AVAILABLE, WE STRONGLY SUGGEST THAT THIS FACILITY BE CONNECTED TO A 24 HOUR 7 DAY SURVEILLANCE SYSTEM TO ENSURE FULL MONITORING. CONTACT YOUR SECURITY SERVICE PROVIDER FOR ASSISTANCE.

P Series +5.0°C Operation
STANDARD SPARK PROOF LABORATORY Refrigerator Instruction Manual

Section 3 – Installation and Operation *cont.*

Storage of Articles

- It is recommended that the refrigerator is not overloaded. It is recommended that the refrigerator is only partially filled (around 75%) and even at maximum stock level the content should not exceed 90% of the refrigerator capacity.
- Leave some space around the goods to let cold air inside the cabinet flow.
- Do not put hot goods into the refrigerator directly until they are cooled to normal temperature.
- Storage on the base of the unit is not recommended.

Section 4 – Maintenance & Service



It is essential that you unplug the refrigerator from the mains and transfer the contents where they can be stored and monitored at the correct temperatures before cleaning.

Please do not use solvents or corrosives of any kind within this refrigerator.

As Required – General Cleaning

- Wash the inner compartment with warm water and neutral detergent. DO NOT allow the control panel, cables or plug to get wet.
- Dry all surfaces thoroughly.
- Wipe down the exterior with a damp cloth to maintain the external finish, careful not to let water seep into the digital display or other electrical components.

3 Monthly - Clean condenser coil and drip tray



Switch off the refrigerator and unplug for re-assurance of safety.

It is recommended to clean condenser coil at the top of the refrigerator whilst refrigerator is switched off.

- 1 Remove filter and clean under running water or vacuum- please ensure fully drain before reinstalling.
- 2 Using a vacuum cleaner carefully clean this coil to remove dust etc.
- 3 Plug hose into the base of the drip tray to drain any chemical spills or water condensation that has accumulated. This tray can be drained, and it is recommended to be cleaned with warm soapy water.
- 4 Switch the refrigerator on again.

P Series +5.0°C Operation
STANDARD SPARK PROOF LABORATORY Refrigerator Instruction Manual

Section 4 – Maintenance & Service cont.

12 Monthly – Annual Preventative Maintenance Service

Pinnacle recommend that you have your unit serviced annually to ensure its ongoing performance, economical operation and warranty conditions.

Please contact CSK Group on the details below to book your service technician.



1300 358 045



info@cskgroup.com.au

General Product Warnings:

- Do not damage the refrigerant circuit.
- For safety, the appliance must be properly earthed in accordance with specifications.
- Do not damage any parts of the appliance which carry refrigerant by piercing, perforating, crushing, twisting or scraping. If the refrigerant comes into contact with the eyes, it may cause serious eye injury.
- Always remember to unplug the appliance before cleaning. Never unplug your appliance by pulling on the power cable. Always grip plug firmly and pull straight out from the socket. Always check that the plug and cable are undamaged.
- Do not use electrical appliances inside the refrigerator, unless they are of the type recommended by the manufacturer.
- If the supply cord is damaged, it must be replaced by Pinnacle
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.
- All repairs must be carried out by qualified engineers. Inadequate repairs may be dangerous. Never try to repair the cooler yourself.

Section 6 – Product Warranty

PRODUCT WARRANTY

- This warranty is limited to goods purchased and installed in Australia. 24 Months full warranty on labour and on parts is provided by Pinnacle Scientific through its authorised dealers or service organisations who will repair or at its option replace any part found to contain a manufacturing defect in material or workmanship without charge to the purchaser for parts, service labour or any necessary shipping or cartage costs for parts only. This warranty does not apply to damage caused by accident, misuse, fire, flood or acts of God. It does not apply to damage caused from failure to properly install, operate or maintain the goods in accordance with the printed instructions provided. To obtain prompt warranty and service, simply contact CSK Group.
- If warranty service is required, Pinnacle Scientific will endeavour to have an authorised service organisation carry out the work if there is an available agent, however if it is decided to return the equipment to our main workshop then it is the customers responsibility to pay the freight cost of this return. Pinnacle Scientific, after the repair, will return the goods at our cost, to the customer.
- The customer should always contact Pinnacle Scientific for approval to return and seek advice as to the best and most cost effective method of return.
- ***Export Warranty:** Limited to replacement of **Parts Only**. Supplied Ex-Factory, Australia. This warranty does not apply to refrigeration compressor(s), that are not protected by Pinnacle Scientific factory installed (WFP) Voltage Fluctuation Protection Unit.
- **Limitation of Liability:** Except to the extent not permitted by law, Pinnacle Scientific excludes all warranties, conditions and terms implied by law. If any implied warranty, condition or term does exist, Pinnacle Scientific's liability for breach of that implied term is limited, at the option of Pinnacle Scientific, to replacement or repair of goods or part thereof, or payment of the cost of repairing or replacing the goods or any part of the goods.
 - The buyer does not have, under any circumstances, any cause of action or right to claim or recover from Pinnacle Scientific for, or in respect of, any loss or damage of any kind, whatsoever, caused directly or indirectly by:
 - Any defect in material or workmanship of, or any other defect whatsoever in, or unsuitability for, any purpose of the goods or any part of the goods; or Default or negligence on the part of Pinnacle Scientific or of any employee, contractor or agent of Pinnacle Scientific or of any person for whom Pinnacle Scientific had legal responsibility relating to the supply, or otherwise concerning the goods or any legal part of the goods